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4. The compound of Claim 2, wherein the substituted piperidyl formed by R^2 and R^3 is substituted with a group selected from the group consisting of an aromatic group; a substituted aromatic group; a heteroaromatic group; a substituted heteroaromatic group; a substituted hydrocarbon group, wherein the substituted hydrocarbon group is substituted with a group selected from the group consisting of an aromatic group, a substituted aromatic group, a heteroaromatic group, and a substituted heteroaromatic group; and a substituted heterogenous group, wherein the substituted heterogenous group is substituted with a group selected from the group consisting of an aromatic group, a substituted aromatic group, a heteroaromatic group, and a substituted heteroaromatic group.

Please amend Claim 5 as follows:

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5. The compound of Claim 18, wherein R^4 is $-S(O)_2-$ and R^5 is $-O, R^6$.

Please amend Claim 9 as follows:

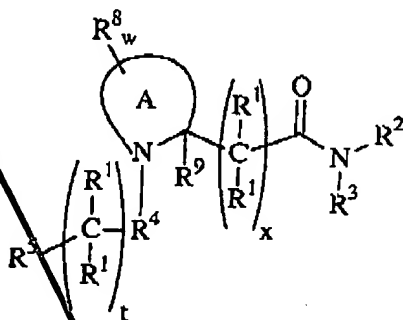
- B5
9. The compound of Claim 18, wherein R^4 is $-C(O)-C(O)-$ and R^5 is $-O, R^6$.

Please amend Claim 11 as follows:

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11. The compound of Claim 4, wherein R^4 is $-CH(R^1)-$ and R^5 is $-O, R^6$.

Please add new Claim 18 as follows:

18. A compound having the structure:



or an optical isomer, diastereomer, enantiomer, pharmaceutically-acceptable salt, biohydrolyzable amide, biohydrolyzable ester, or biohydrolyzable imide thereof, wherein:

- (a) w is 0 to about 6, x is 0 to about 10, and t is 0 to about 6;
(b) A is a substituted heterocyclic group having about 4 to about 9 members;

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- (c) R^1 is selected from the group consisting of a hydrogen atom, a hydroxyl group, a hydrocarbon group, a substituted hydrocarbon group, a heterogeneous group, a substituted heterogeneous group, a carbocyclic group, a substituted carbocyclic group, a heterocyclic group, a substituted heterocyclic group, an aromatic group, a substituted aromatic group, a heteroaromatic group, and a substituted heteroaromatic group;
- (d) R^2 and R^3 are bonded together to form a substituted piperidyl;
- (e) R^4 is selected from the group consisting of $-S(O)_2-$, $-C(O)-C(O)-$, and $-CH(R^1)-$;
- (f) R^5 is selected from the group consisting of $-NR^6(R^7)-$ and $-O_rR^6-$, wherein r is 0 or 1; with the proviso that wherein R^4 is $-CH(R^1)-$ and R^5 is $-O_rR^6-$ then r is 1;
- (g) R^6 is selected from the group consisting of a hydrocarbon group, a substituted hydrocarbon group, a heterogeneous group, a substituted heterogeneous group, a carbocyclic group, a substituted carbocyclic group, a heterocyclic group, a substituted heterocyclic group, an aromatic group, a substituted aromatic group, a heteroaromatic group, and a substituted heteroaromatic group; and R^7 is selected from the group consisting of a hydrogen atom and R^6 ;
- (h) R^8 is selected from the group consisting of a hydrocarbon group, a substituted hydrocarbon group, a heterogeneous group, a substituted heterogeneous group, a carbocyclic group, a substituted carbocyclic group, a heterocyclic group, a substituted heterocyclic group, an aromatic group, a substituted aromatic group, a heteroaromatic group, and a substituted heteroaromatic group; and
- (i) R^9 is selected from the group consisting of a hydrogen atom and a hydrocarbon group.

Please add new Claim 19 as follows:

19. The compound of Claim 11, wherein r is 1.

Please add new Claim 20 as follows:

20. The compound of Claim 19, wherein R^1 is selected from the group consisting of hydrogen atom and hydroxyl group.

Please add new Claim 21 as follows:

21. The compound of Claim 20, wherein t is from 0 to about 3 and at least one R^1 is hydroxy.

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Please add new Claim 22 as follows:

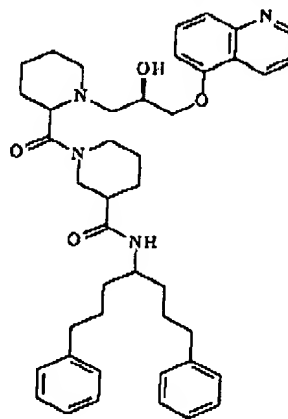
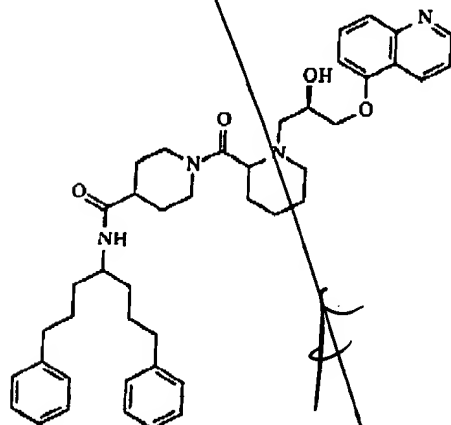
22. The compound of Claim 21, wherein x is 0.

~~Please add new Claim 23 as follows:~~

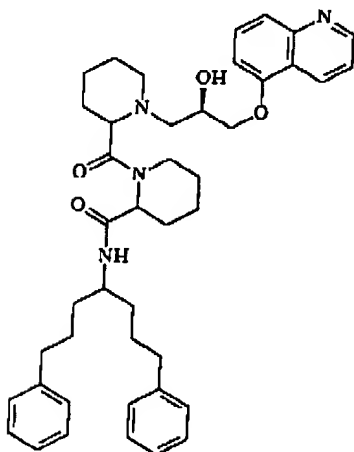
23. ~~The compound of Claim 22, wherein R⁹ is hydrogen atom.~~

Please add new Claim 24 as follows:

24. The compound of Claim 23, having a structure selected from the group consisting of:



and



Please add new Claim 25 as follows:

25. A composition comprising:
- (a) the compound according to Claim 18; and
 - (b) a pharmaceutically acceptable carrier.

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Please add new Claim 26 as follows:

26. The composition according to Claim 25, wherein the compound inhibits transport protein activity.

Please add new Claim 27 as follows:

27. A composition comprising:
(a) the compound according to Claim 11; and
(b) a pharmaceutically acceptable carrier.

Please add new Claim 28 as follows:

28. A composition comprising:
(a) the compound according to Claim 24; and
(b) a pharmaceutically acceptable carrier.

Please add new Claim 29 as follows:

29. A method selected from the group consisting of treating multidrug resistance, inhibiting transport protein activity, and combinations thereof, comprising administering to a mammal in need of such treatment or inhibition the composition according to Claim 18.

Please add new Claim 30 as follows:

30. A method selected from the group consisting of treating multidrug resistance, inhibiting transport protein activity, and combinations thereof, comprising administering to a mammal in need of such treatment or inhibition the composition according to Claim 11.

Please add new Claim 31 as follows:

31. A method selected from the group consisting of treating multidrug resistance, inhibiting transport protein activity, and combinations thereof, comprising administering to a mammal in need of such treatment or inhibition the composition according to Claim 24.